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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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03/13/2008

BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980

EXAMINER					
LEE, BETT <b>Y</b> E					
ART UNIT	PAPER NUMBER				
2619					

DATE MAILED: 03/13/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/828,380 04/20/2004 Joe Keirouz 069110.0161 4822

TITLE OF INVENTION: APPARATUS AND METHODS FOR MANAGING PACKETS IN A BROADBAND DATA STREAM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/13/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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DALLAS, TX 7	5201-2980								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONF	FIRMATION NO.
10/828,380 ITLE OF INVENTION	04/20/2004 : APPARATUS AND M	ETHODS FOR MANAG	Joe Keirouz FING PACKETS IN A	BRC	ADBAND DATA	. STRE	069110.0161 EAM		4822
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740		06/13/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
LEE, BI	ETTY E	2619	370-412000	_					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON "			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	of a single firm (having as a member a priney or agent) and the names of up to atent attorneys or agents. If no name is e will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	fied below, no assignee letion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	he pa g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	TRY)		
lease check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	up entit	y 🖵 Government
a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			A check is enclos Payment by credi	ed. t card	. Form PTO-2038 authorized to char	is atta	required fee(s), any de	ficiency	
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OTE: The Issue Fee an	d Publication Fee (if requ	nired) will not be accepted tes Patent and Trademark	d from anyone other th						
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/828,380	04/20/2004	Joe Keirouz	069110.0161	4822	
5073 7:	590 03/13/2008		EXAM	INER	
BAKER BOTTS	L.L.P.		LEE, BI	ETTYE	
2001 ROSS AVEN	NUE		ART UNIT	PAPER NUMBER	
SUITE 600 DALLAS, TX 75201-2980			2619 DATE MAILED: 03/13/200	8	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 820 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 820 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/828,380	KEIROUZ ET AL.		
Notice of Allowability	Examiner	Art Unit		
	BETTY LEE	2619		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailtey), a Notice of Allowance (PTOL-85)	ears on the cover sheet with the of (OR REMAINS) CLOSED in this appropriate communication	correspondence address oplication. If not included on will be mailed in due course. THIS		
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313		to withdrawai from issue at the initiative		
1. This communication is responsive to <u>12/18/07</u> .				
2. The allowed claim(s) is/are <u>1-20</u> .				
3. $\square$ Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some* c) ☐ None of the:				
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.			
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·		
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	s national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.			
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Review(PTC	0-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in the	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application		
<ol> <li>Notice of References Cited (PTO-092)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Summar			
_ , ,	Paper No./Mail Da	ate		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7.   Examiner's Ameno	Iment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  8. ☑ Examiner's Statement of Reasons for Allowa				
	9.			

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### **DETAILED ACTION**

## Allowable Subject Matter

1. Claims **1-20** are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 11, and 16, the prior art fails to teach or fairly suggest a device for managing packets in a data stream, comprising: a write request control unit to divide packets into long cells and short cells; and an access control unit to store pointers to long cells in a plurality of long cell queues and pointers to the short cells in a plurality of short cell queues during a write cycle, where the write request control unit selectively pairs a long cell from any one of the long cell queues with a short cell from any one of the short cell queues.

Regarding claim 3, the prior art fails to teach or fairly suggest a device for managing packets in a data stream, comprising: a write request control unit to divide packets into long cells and short cells; an access control unit which stores the optimized long and short cell pair determined by the write request control unit, where the access control unit suspends the optimized performance order whenever a difference in the write index of top long and short cell pointers exceeds a predetermined threshold.

Regarding claims 6, the prior art fails to teach or fairly suggest a device for managing packets in a data stream, comprising: a write request control unit to divide packets into long cells and short cells; access control unit operable to store long cell and short cell pointer pairs; and a request control unit providing transmit requests to the

access control unit, which stores the long request in the long cell queue and the short request in the short cell queue.

Regarding claim 12, the prior art fails to teach or fairly suggest a method for managing packets in a data stream, comprising: dividing packet cells into long and short cells, storing these cells in long and short cell queues, establishing an optimized performance order for the long and short cell queues, where the when the optimized performance order is suspended stale long and short cell pointers are processed.

Regarding claim 13, the prior art fails to teach or fairly suggest packet management method of dividing packets into long and short cells, pairing a long cell with a short cell and storing the pointers to these pairs into the long cell queue and the short cell queue, and pairing a long request with a short request and storing the requests in the long cell queue and the short cell queue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BETTY LEE whose telephone number is (571)270-1412. The examiner can normally be reached on Monday-Thursday 9-5 EST and alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Betty Lee Examiner, Art Unit 2619

> /Hassan Kizou/ Supervisory Patent Examiner, Art Unit 2619